

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:
storing native code associated with a first method within a native code space;
creating a symbolic reference to the first method in a method table;
determining whether the native code space exceeds a threshold in response to an
invocation of a second method; ~~and~~
reclaiming the native code associated with the first method and compiling byte code into
native code associated with the second method in response to the determination;
and
updating the method table for the first method to reference an appropriate symbolic
reference.
2. (Previously Presented) The method as set forth in claim 2, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination comprises reclaiming the native code associated with the first method in response to a determination that the native code space exceeds the threshold.
3. (Previously Presented) The method as set forth in claim 2, further comprising storing the native code associated with the second method within the native code space in response to the compilation.

4. (Previously Presented) The method as set forth in claim 2, further comprising:
invoking the first method following the reclamation; and
re-compiling byte code into the native code associated with the first method in response
to the invocation of the first method.
5. (Previously Presented) The method as set forth in claim 2, wherein reclaiming the native
code associated with the first method and compiling byte code into native code associated
with the second method in response to the determination comprises compiling byte code
into native code associated with the second method.
6. (Previously Presented) The method as set forth in claim 5, wherein compiling byte code
into native code associated with the second method comprises compiling byte code into
native code associated with the second method utilizing a just-in-time compiler.
7. (Previously Presented) The method as set forth in claim 2, wherein reclaiming the native
code associated with the first method and compiling byte code into native code associated
with the second method in response to the determination comprises:
determining whether the first method is active or inactive; and
reclaiming the native code associated with the first method in response to a determination
that the first method is inactive.
8. (Currently Amended) The method as set forth in claim 7, further comprising wherein:

reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination further comprises determining whether the first method is hot or cold in response to a determination that the first method is inactive; and

reclaiming the native code associated with the first method in response to a determination that the first method is inactive comprises reclaiming the native code associated with the first method in response to a determination that the first method is cold.'

9. (Currently Amended) A data processing system-readable medium having a plurality of instructions executable by a data processing system embodied therein, wherein the plurality of instructions when executed cause the data processing system to perform operations comprising:
storing native code associated with a first method within a native code space;
creating a symbolic reference to the first method in a method table;
determining whether the native code space exceeds a threshold in response to an invocation of a second method; and
reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination;
and
updating the method table for the first method to reference an appropriate symbolic reference.

10. (Previously Presented) The data processing system-readable medium of claim 9, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination comprises reclaiming the native code associated with the first method in response to a determination that the native code space exceeds the threshold.
11. (Previously Presented) The data processing system-readable medium of claim 9, wherein the plurality of instructions when executed further cause the data processing system to perform operations comprising storing the native code associated with the second method within the native code space in response to the compilation.
12. (Previously Presented) The data processing system-readable medium of claim 9, wherein the plurality of instructions when executed further cause the data processing system to perform operations comprising invoking the first method following the reclamation; and re-compiling byte code into the native code associated with the first method in response to the invocation of the first method.
13. (Previously Presented) The data processing system-readable medium of claim 9, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination comprises compiling byte code into native code associated with the second method.

14. (Previously Presented) The data processing system-readable medium of claim 13, wherein compiling byte code into native code associated with the second method comprises compiling byte code into native code associated with the second method utilizing a just-in-time compiler.
15. (Previously Presented) The data processing system-readable medium of claim 9, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination comprises:
determining whether the first method is active or inactive; and
reclaiming the native code associated with the first method in response to a determination that the first method is inactive.
16. (Currently Amended) The data processing system-readable medium of claim 15, ~~wherein~~further comprising:
reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination further comprises determining whether the first method is hot or cold; and
reclaiming the native code associated with the first method in response to a determination that the first method is inactive comprises reclaiming the native code associated with the first method in response to a determination that the first method is cold.
17. (Currently Amended) A data processing system comprising:

a storage device;

a processor coupled with the storage device, the processor to process data and execute instructions; and

a memory coupled with the storage device and the processor, the memory to store data including a plurality of instructions which when executed by the processor cause the data processing system to perform operations having:

storing native code associated with a first method within a native code space of the memory;

creating a symbolic reference to the first method in a method table;

determining whether the native code space exceeds a threshold in response to an invocation of a second method; and

reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination; and

updating the method table for the first method to reference an appropriate symbolic reference.

18. (Previously Presented) The data processing system of claim 17, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination comprises reclaiming the native code associated with the first method in response to a determination that the native code space exceeds the threshold.

19. (Previously Presented) The data processing system of claim 17, wherein the plurality of instructions when executed further cause the data processing system to perform operations comprising storing the native code associated with the second method within the native code space in response to the compilation.
20. (Previously Presented) The data processing system of claim 17, wherein the plurality of instructions when executed further cause the data processing system to perform operations comprising invoking the first method following the reclamation; and re-compiling byte code into the native code associated with the first method in response to the invocation of the first method.
21. (Previously Presented) The data processing system of claim 17, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination comprises compiling byte code into native code associated with the second method.
22. (Previously Presented) The data processing system of claim 21, wherein compiling byte code into native code associated with the second method comprises compiling byte code into native code associated with the second method utilizing a just-in-time compiler.
23. (Previously Presented) The data processing system of claim 17, wherein reclaiming the native code associated with the first method and compiling byte code into native code associated with the second method in response to the determination comprises:

determining whether the first method is active or inactive; and
reclaiming the native code associated with the first method in response to a determination
that the first method is inactive.

24. (Currently Amended) The data processing system of claim 23, ~~wherein~~further
comprising:

reclaiming the native code associated with the first method and compiling byte code into
native code associated with the second method in response to the determination
further comprises determining whether the first method is hot or cold; and
reclaiming the native code associated with the first method in response to a determination
that the first method is inactive comprises reclaiming the native code associated
with the first method in response to a determination that the first method is cold.

Claims 25-28 (Cancelled)